

**I claim:**

1. A telephone dialing apparatus capable of directly downloading a telephone directory from a mobile phone subscriber identity module (SIM) card comprising a SIM card socket, a SIM card reader, a control unit, a memory unit, a dialing unit, a human-machine interface, an alarm unit and an information editing unit, wherein:

the SIM card socket is to couple with the mobile phone SIM card and to allow the SIM card reader to read data stored in the mobile phone SIM card;

the SIM card reader includes communication protocols of the mobile phone SIM card and through the SIM card socket to read data stored in the mobile phone SIM card, and to store the data temporarily in the memory unit;

the control unit is activated by the human-machine interface to monitor and control the operations of other units of the apparatus;

the memory unit temporarily stores data including telephone numbers, names and brief codes;

the dialing unit outputs dialing signals to replace human dialing operations of pressing pushbuttons;

the human-machine interface is selectively a matrix array of pushbuttons, a dial plate, or a touch screen to allow users to activate the apparatus of the invention;

the alarm unit allows users to view and inspect the conditions of the  
apparatus and search electronic telephone directory, and generate alarm  
in a form of visual display or audio sound; and  
the information editing unit allows users or system to edit the received  
5 telephone information in the electronic telephone directory;  
whereby users do not need to enter the electronic telephone directory  
repeatedly and more than one telephone systems are allowed to utilize  
the mobile phone electronic telephone directory to perform dialing  
operations.

- 10 2. The telephone dialing apparatus of claim 1, wherein the apparatus is linked to  
an earphone circuit.
3. The telephone dialing apparatus of claim 1, wherein the apparatus is linked to  
a fixed line telephone.

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